

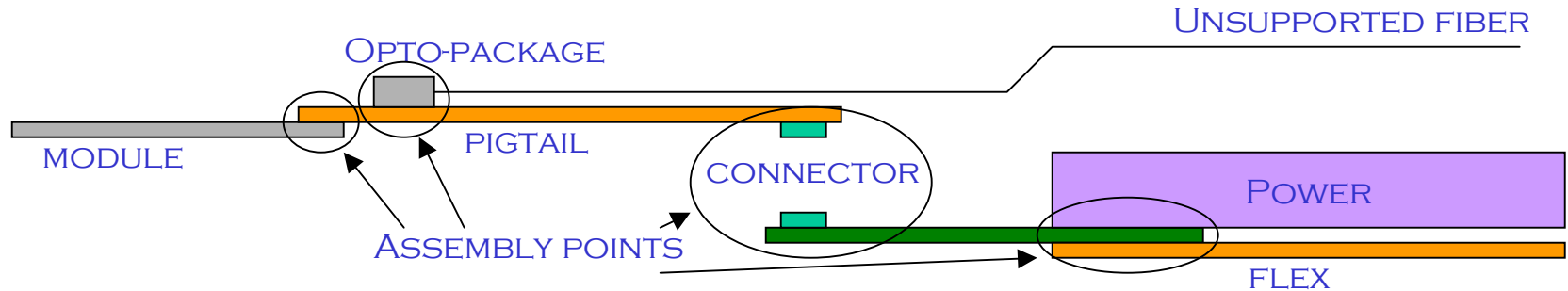
CABLE TO PIGTAIL TERMINATION

13-JUNE, 2000

MODULE MEETING

E. ANDERSSSEN, LBNL

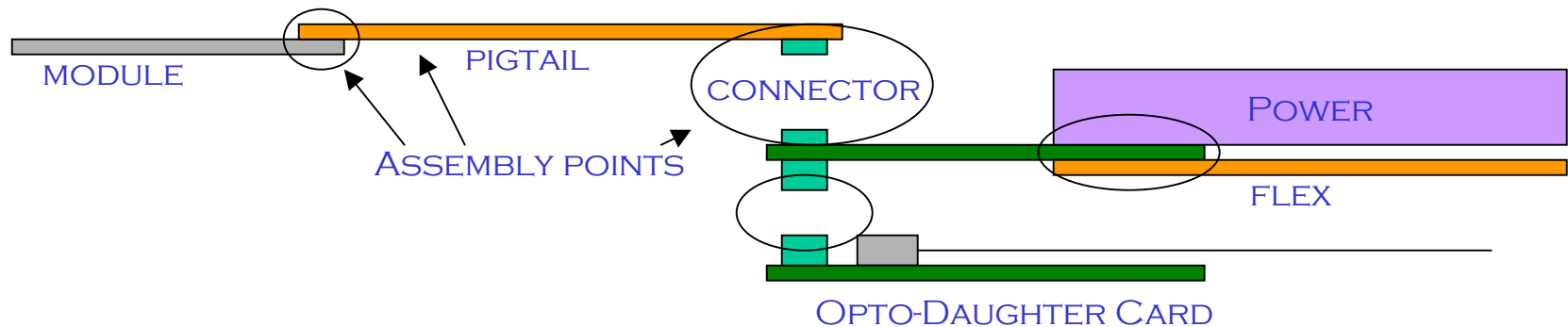
PIGTAIL TO CABLE TERMINATION



- **BASELINE CONCEPT MOVED OPTO-PACKAGE OFF MODULE ONTO PIGTAIL**
- **SOME REASONING WHICH WENT INTO THIS:**
 - INTEGRATE FIBER AS LATE AS POSSIBLE
 - INCONSISTENCY IN QA PLAN AND WHEN TO MOUNT PACKAGE ON MODULE AND MODULE ON LOCAL SUPPORT
 - STRAIN RELIEF OF FIBER IF FIBER MOVES WITH MODULE
 - BEND RADII OF FIBER
- **CONCERNS RAISED**
 - DISTANCE OF OPTO-PACKAGE TO MODULE
 - HEAT DISSIPATION OF OPTO-PACKAGE
 - RIGIDIZATION REQUIREMENT OF FLEX FOR PACKAGE AND PASSIVES
- **REMAINING ISSUES**
 - TESTABILITY OF OPTO-COMPONENTS
 - STRAIN RELIEF OF FIBER

PIXEL DETECTOR

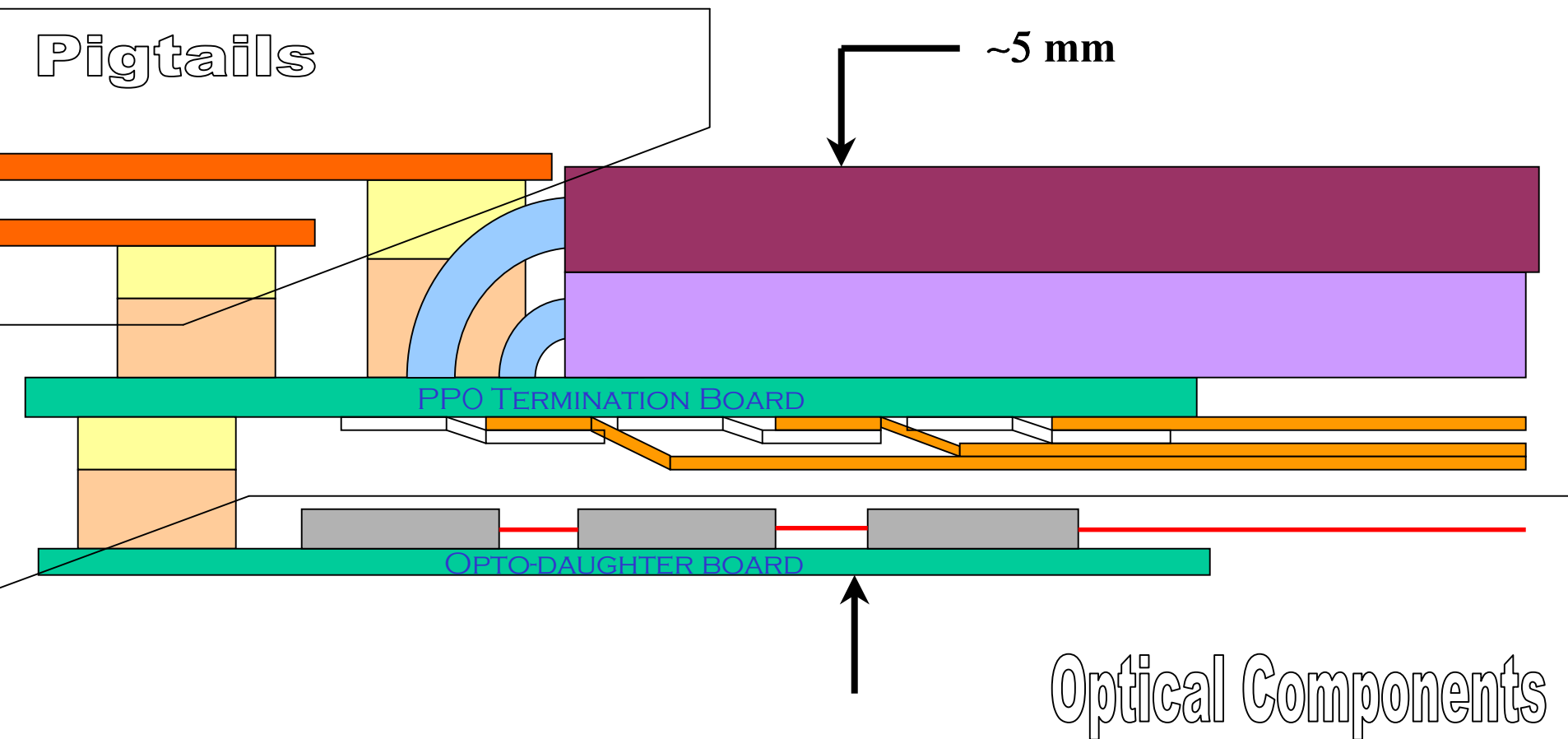
PROPOSED CHANGE



- **MOVE FIBER FROM PIGTAIL TO OTHER SIDE OF PIGTAIL ELECTRICAL BREAK**
 - ALLOWS FIBERS TO BE INTEGRATED EVEN LATER PROVIDING FOR BETTER STRAIN RELIEF
 - PIGTAIL ENTIRELY ELECTRICAL STRUCTURE
- **CHANGE OF LOCATION OF OPTO-PACKAGES TO DAUGHTER CARD INSTEAD OF ON PPO CARD OR PIGTAIL**
 - OPTO-PACKAGE UNTESTABLE UNTIL POWER AND FIBER ATTACHMENT MADE
 - PROPOSED SOLUTION DECOUPLES YIELD OF FIBER TERMINATION AND FLEX/POWER TERMINATION TO SINGLE BOARD
- **ALL FINAL INTERFACES NOW ELECTRICAL NOT COMBINED OPTO-ELECTRICAL**

PIXEL DETECTOR

SCHEMATIC CROSS SECTION



PIXEL DETECTOR

PPO BOARD

